

IN THE CLAIMS

The following is a clean version of the entire set of pending claims. In accordance with 37 CFR 1.121(c)(1)(ii), Attachment B provides marked up versions of the claims containing the newly introduced changes.

1. (Twice Amended) A computer system, comprising:
- a case including a first drive bay; and
 - a first drive assembly removably mounted in the first drive bay, said first drive assembly comprising:
 - a first hard drive; and
 - a first drive chassis, comprising:
 - a first rail provided along a first side of the first hard drive;
 - a second rail substantially parallel to the first rail and provided along a second side of the first hard drive opposite the first side;
 - a retaining portion adjacent a front side of the first hard drive and connecting a front end of the first rail to a front end of the second rail, the retaining portion comprising a top plate and a bottom plate;
 - a first notch provided on a first interior side of the first drive bay;
 - a handle rotatably connected to the retaining portion of the first drive chassis and between the top plate and the bottom plate, the handle having a first end and a second end distal from the first end, said handle being rotatable about an axis perpendicular to the top and bottom plates and located between the first and second ends of the handle, said handle defining a closed position in which the first end of said handle is a first distance from the front end of the first rail of the first drive assembly, and said handle defining an open position in which the handle is rotated about the axis such that the first end of the handle is a second distance from the front end of the first rail of the first drive assembly, the first distance being less than the second distance; and

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a first latch provided on the first end of the handle and adapted to engage the first notch when the first drive assembly is inserted into the first drive bay and the handle is in the closed position;

wherein the first drive chassis does not include any portion which is adjacent to a top surface and a bottom surface of the first hard drive.

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2. The computer system of Claim 1, further comprising:

a second drive bay provided beneath the first drive bay; and

a second drive assembly removably mounted in the second drive bay, said second drive assembly comprising:

a second hard drive; and

a second drive chassis, comprising:

a first rail provided along a first side of the second hard drive;

a second rail substantially parallel to the first rail and provided along a second side of the second hard drive opposite the first side; and

a retaining portion adjacent a front side of the second hard drive and connecting a front end of the first rail to a front end of the second rail;

wherein the second drive chassis does not include any portion which is adjacent to a top surface and a bottom surface of the second hard drive.

3. The computer system of Claim 2, wherein a lower plane of the first hard drive is separated from an upper plane of the second hard drive by less than about 0.1 inches.

4. The computer system of Claim 2, wherein:

the case includes a top cover and a bottom cover;

an upper plane of the first hard drive is separated from the top cover by less than about 0.1 inches; and

a lower plane of the second drive assembly is separated from the bottom cover by less than about 0.1 inches.

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5. The computer system of Claim 1, wherein said case is approximately 3.5 inches tall.

6. The computer system of Claim 1, wherein the case is adapted to be mounted in a 2U rack mount.

7. The computer system of Claim 1, wherein the first hard drive is a half-height hard drive.

8. The computer system of Claim 1, wherein the first drive bay is adapted to receive a half-height hard drive.

9. The computer system of Claim 2, wherein the second hard drive is a half-height hard drive.

10. (Amended) The computer system of Claim 2, wherein the second drive bay is adapted to receive a half-height hard drive.

11. The computer system of Claim 1, further comprising:

a first pair of guide rails provided on a first interior side of the first drive bay for receiving the first rail of the first drive assembly; and

a second pair of guide rails provided on a second interior side of the first drive bay opposite the first interior side for receiving the second rail of the first drive assembly.

12. The computer system of Claim 2, further comprising:

a first guide rail provided on a first interior side of the second drive bay for receiving the first rail of the second drive assembly; and

a second guide rail provided on a second interior side of the second drive bay opposite the first interior side for receiving the second rail of the second drive assembly.

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13. (Twice Amended) The computer system of Claim 1, further comprising:
a shoulder provided on a second interior side of the first drive bay opposite the first interior side; and
a cam provided at the second end of the handle and adapted to abut the shoulder when the first drive assembly is inserted into the first drive bay.

14. The computer system of Claim 13, wherein the first drive assembly further comprises:

a spring providing a force on the handle, urging the handle to rotate from the closed position to the open position.

15. The computer system of Claim 13, further comprising:

a second notch provided on the second interior side of the first drive bay;

a second latch provided on the second end of the handle and adapted to engage the second notch when the first drive assembly is inserted in the first drive bay.

16. The computer system of Claim 1, further comprising a fan provided in the case adjacent a rear portion of the first drive bay, said fan creating an airflow from a front side of the first drive assembly to a rear side of the first drive assembly.

17. The computer system of Claim 1, wherein a top portion of the case is formed of thin gauge sheet metal less than approximately 0.05 inches thick.

18. The computer system of Claim 1, wherein a bottom portion of the case is formed of thin gauge sheet metal less than approximately 0.05 inches thick.

21. (Twice Amended) The computer system of Claim 1, further comprising, in the first rail of the first drive chassis, a light transmitting member for transmitting light from a rear portion of the first drive bay to a front portion of the first hard drive.

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22. The computer system of Claim 21, wherein:

the first rail of the first drive chassis defines a channel extending from a rear portion of the first hard drive to the front portion of the first hard drive; and

the light transmitting member is a fiber optic filament provided in the channel.

23. The computer system of Claim 1, further comprising, in the second rail of the first drive chassis, a light transmitting member for transmitting light from a rear portion of the first drive bay to a front portion of the first hard drive.

24. The computer system of Claim 23, wherein:

the second rail of the first drive chassis defines a channel extending from a rear portion of the first hard drive to the front portion of the first hard drive; and

the light transmitting member is a fiber optic filament provided in the channel.

25. (Twice Amended) A hard drive mounting structure, comprising:
a hard drive bay including:

a first notch provided on a first interior side of said hard drive bay; and

a shoulder provided on a second interior side of said hard drive bay opposite the first interior side; and

a hard drive assembly, comprising:

a hard drive;

a chassis attached to the hard drive, said chassis including a retaining portion positioned adjacent a front portion of the hard drive, the retaining portion comprising a top plate and a bottom plate;

a handle rotatably connected to the retaining portion between the top plate and the bottom plate, the handle having a first end and a second end distal from the first end, said handle being rotatable about an axis perpendicular to the top and bottom plates and located between the first and second ends of the handle, said handle defining a closed position in which the first end of said handle is a first distance from the chassis, and said handle defining an open

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position in which the handle is rotated about the axis such that the first end of the handle is a second distance from the chassis, the first distance being less than the second distance;

a first latch provided on the first end of the handle and adapted to engage the first notch when the hard drive assembly is inserted into the hard drive bay and the handle is in the closed position; and

a cam provided at the second end of the handle and adapted to abut the shoulder when the hard drive assembly is inserted into the hard drive bay.

26. The hard drive mounting structure of Claim 25, wherein the hard drive assembly further comprises:

a spring providing a force on the handle, urging the handle to rotate from the closed position to the open position.

27. The hard drive mounting structure of Claim 25, further comprising:

a second notch provided on the second interior side of the hard drive bay;

a second latch provided on the second end of the handle and adapted to engage the second notch when the hard drive assembly is inserted in the hard drive bay.

28. The hard drive mounting structure of Claim 25, wherein the chassis comprises:

a first rail provided along one side of the hard drive;

a second rail provided along an opposite side of the hard drive;

wherein the retaining portion is attached to a front end of the first rail and a front end of the second rail.

29. (Amended) The hard drive mounting structure of Claim 25, wherein the chassis does not include any portion which is adjacent to a top surface and a bottom surface of the hard drive.

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30. The hard drive mounting structure of Claim 25, further comprising:

a first guide rail provided on the first interior side of the hard drive bay for receiving the first rail of the hard drive assembly; and

a second guide rail provided on the second interior side of the first drive bay for receiving the second rail of the hard drive assembly.

31. The hard drive mounting structure of Claim 25, wherein the hard drive is a half-height hard drive.

32. The hard drive mounting structure of Claim 25, further comprising a fan adjacent a rear portion of the hard drive bay, said fan creating an airflow from a front side of the hard drive assembly to a rear side of the hard drive assembly.

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33. (Amended) A clip for retaining expansion boards on a computer system, comprising:

a clip body;

a stabilizing projection attached to a top portion of the clip body, adapted to be mounted on a computer case such that said stabilizing projection extends to an exterior of the case and the clip body extends to an interior of the case; and

a first flange attached to a side of the clip body and adapted to abut a first expansion board, thereby preventing horizontal movement of the first expansion board.

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34. The clip according to Claim 33, further comprising a second flange attached to a second side of the clip body and substantially parallel to the first flange, said second flange being adapted to abut a second expansion board, thereby preventing horizontal movement of the second expansion board.

35. The clip of Claim 33 wherein a bottom portion of the clip body is adapted to abut a shoulder on the computer case

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36. The clip of Claim 33, wherein the first flange is adapted to be inserted in a first slot provided on the computer case.

37. The clip of Claim 34, wherein the second flange is adapted to be inserted in a second slot provided on the computer case.

38. The clip of Claim 33, wherein the first flange is adapted to abut a mounting bracket provided on the first expansion board.

39. The clip of Claim 34, wherein the second flange is adapted to abut a mounting bracket provided on the second expansion board.

In accordance with 37 CFR 1.121(b)(1)(iii), Attachment B provides marked up versions of the amended paragraphs containing the newly introduced changes.

REMARKS

The above amendments in the specification amend the specification to correct errors and improve clarity. No new matter is added.

Claims 1-18 and 21-39 are pending in the present application. Claims 33-39 were allowed but the allowability was withdrawn in light of a newly discovered reference U.S. patent 5,757,618 (Lee). Claims 1-18 and 21-39 are rejected. Claims 1, 10, 13, 21, 25, 29 and 33 are amended to more particularly point out and distinctly claim Applicants' invention. Support for the claim amendments is provided in the specification, particularly, page 9, lines 1-10. No new matter is introduced. Further examination and reconsideration in view of the amendments and the remarks provided below are respectfully requested.

Claim Rejections Under 35 U.S.C. §112

Claim 29:

The Examiner rejected Claim 29 under 35 U.S.C. § 112, second paragraph, "as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention." Particularly, the Examiner stated that the recited

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